



ACQ

(19)

(11) Publication number:

0

Generated Document.

## PATENT ABSTRACTS OF JAPAN

(21) Application number: 62174929

(51) Int'l. Cl.: F02D 41/22

(22) Application date: 15.07.87

(30) Priority:

(43) Date of application  
publication: 23.01.89(84) Designated contracting  
states:

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### (54) CONTROLLER FOR INTERNAL COMBUSTION ENGINE

(57) Abstract:

**PURPOSE:** To surely provide back-up motion by carrying out required correction when cam pulse omission is detected in the back-up control by cam pulse.

**CONSTITUTION:** In a controller 1 for an internal combustion engine 2 are provided first and second pulse generators 10, 20 coaxially with a drive shaft 3a of a fuel injection pump 3. When a failure of the first pulse generator 10 is detected in a control unit 30, the cycle of cam pulse  $P_c$  from the second pulse generator 20 is measured and the reference timing is judged on the basis of the result of measurement. At the same time, when whether or not the cam pulse  $P_c$  is omitted is detected and the omission of cam pulse  $P_c$  is detected, required correction is carried out to renew correctly data showing a crankshaft angle under control. Thus, even if the cam pulse  $P_c$  is omitted in the back-

up control by the cam pulse  $P_c$ , the internal combustion engine 2 can be normally controlled.

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